DOCUMENT RESUME

ED 446 946 SE 064 099

TITLE	Plant Structure & Growth. Plant Life in Action[TM]. Schlessinger Science Library. [Videotape].
ISBN	ISBN-1-57225-321-5
PUB DATE	2000-00-00
NOTE	0p.; For other videotapes in this series, see SE 064 100-104. Videotape designed for grades 5-8.
AVAILABLE FROM	Schlessinger Media, Div. of Library Video Company, P.O. Box 580, Wynnewood, PA 19096 (6 volume set, $214.70; each 23-minute videotape, $39.95). Tel: 800-843-3620 (Toll Free); Web site: http://www.libraryvideo.com.
PUB TYPE	Guides - Classroom - Teacher (052) -- Non-Print Media (100)
EDRS PRICE	Document Not Available from EDRS.
DESCRIPTORS	*Adjustment (to Environment); *Anatomy; Hands on Science; Intermediate Grades; Junior High Schools; *Plant Growth; *Plants (Botany); Science Activities; Science Education; Science Experiments; Videotape Recordings

ABSTRACT

What if you could build a machine that could make it's own fuel, adapt to changing conditions, and generate priceless products like air and water? Over millions of years, vascular plants have developed roots, stems and leaves that work together to perform these feats, as well as provide energy for every living thing on Earth! In Plant Structure and Growth, students will discover how plant cells are organized to form specialized tissues like xylem and phloem as they follow the movement of water, minerals and food through a plant's "plumbing system." Diagrams and microscopic photography illustrate how plant structures form systems that support plant growth. In a hands-on activity suitable for the classroom, students investigate geotropism and observe how plants react to their environment. This program is based on the concepts outlined in the National Science Education Standards for Life Science: Structure & Function in Living Systems, Reproduction & Heredity, Regulation & Behavior, Populations & Ecosystems and Diversity & Adaptations of Organisms. A teacher's guide is included. (ASK)

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